

# ***Headquarters U.S. Air Force***

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***Integrity - Service - Excellence***

## **Capabilities Based Requirements**



**HQ USAF/XORD  
10 Mar 04**

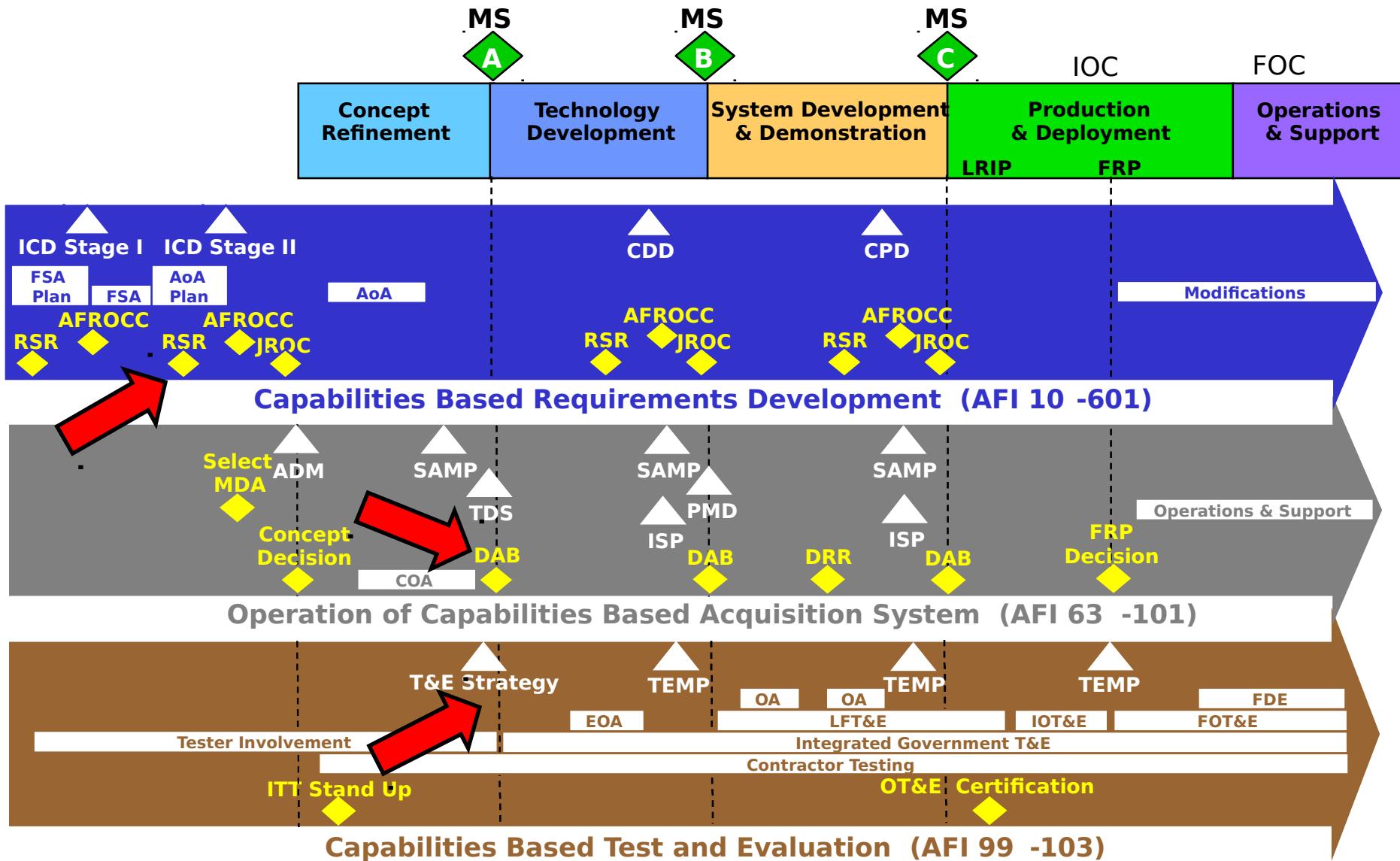
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# Integrated Schedule

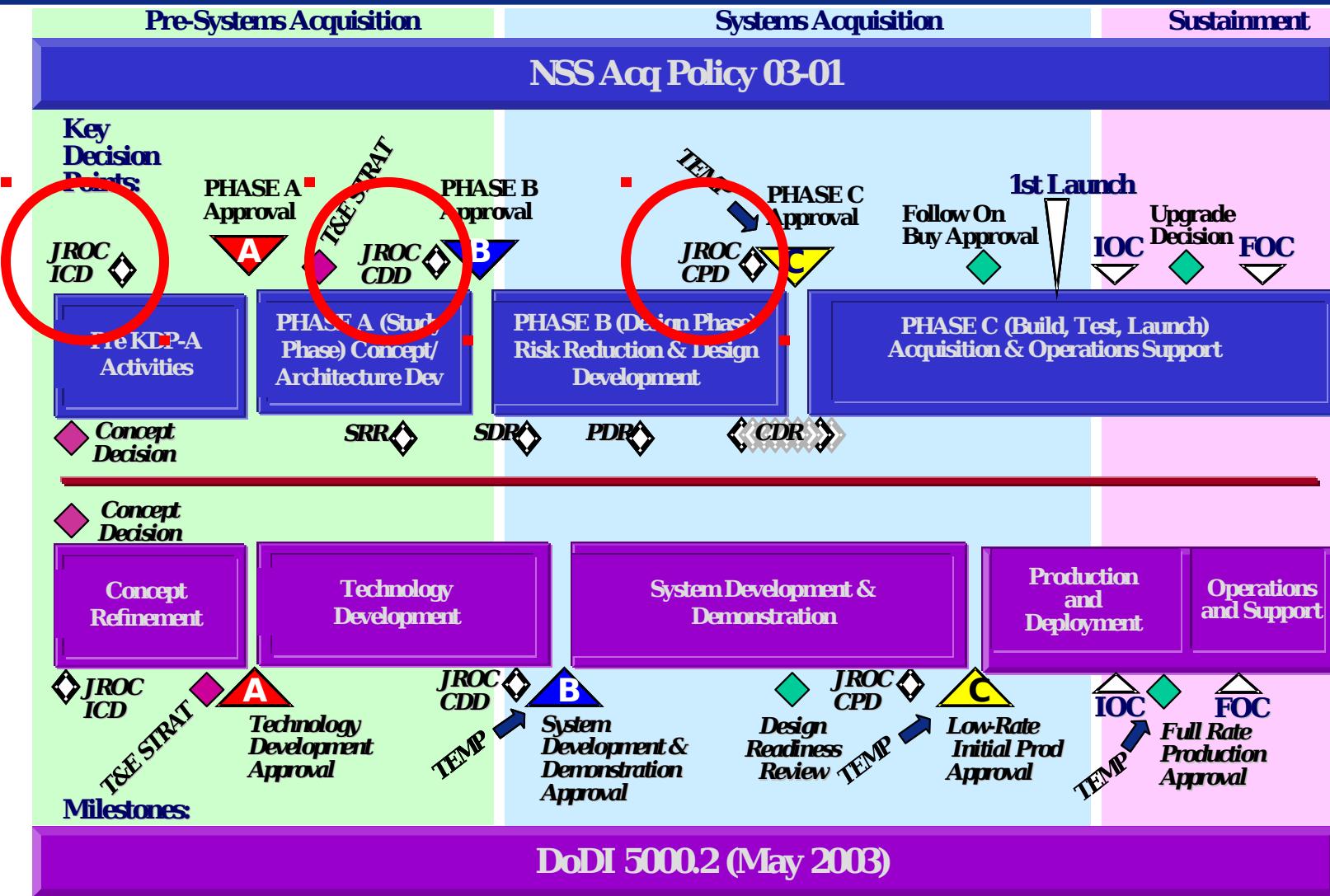
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# Tailored Process for Space: Acquisition Phase





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# XOR Organization

Dir Operational Capabilities Rqts  
Maj Gen (S) Goldfein, XOR

Dep Dir CONOPS Champion  
Brig Gen (S) Kowalski, DXOR

Dep Dir Operational Capabilities Rqts  
Mr Disbrow, SES, DXOR

Global Mobility (GM)

XORC, GR/GS Capabilities

Global Persistent Attack (GPA)

XORD, Integration & Mgt

Global Strike (GS)

XORI, C2ISR Capabilities

Homeland Security

XORM, GM Capabilities

Integration

XORP, Program Integration

Nuclear Response

XORR, Space Capabilities

Space & C4ISR

XORS, Combat Survivability & EW

XORW, Weapons



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Global Mobility (GM)

XORP, Program Integration

Global Persistent Attack (GPA)

Policy Generation | Integration

Global Strike (GS)

XORI, C2ISR Capabilities

Homeland Security

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Integration

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Nuclear Response

XORR, Space Capabilities

Space & C4ISR

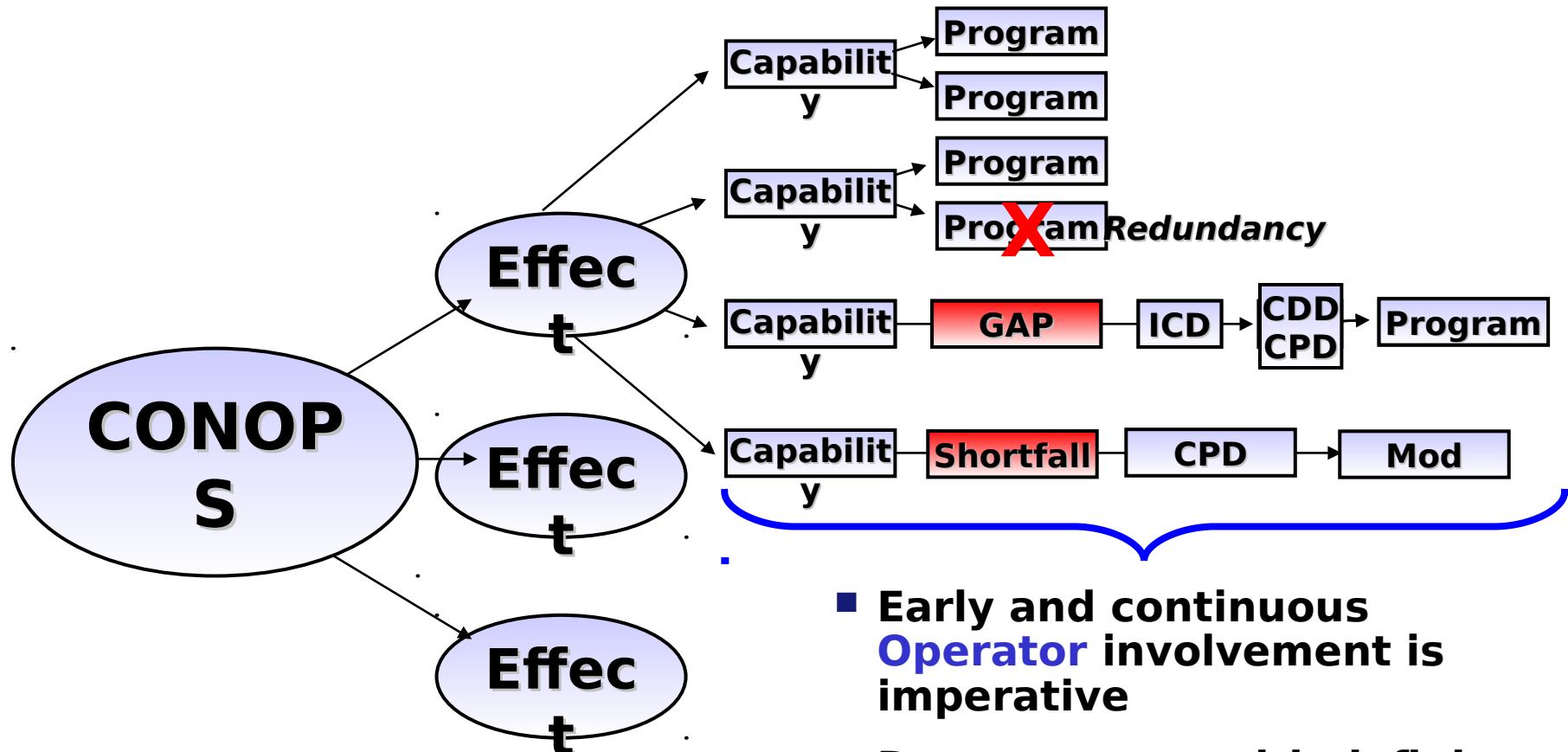
XORS, Combat Survivability & EW

XORW, Weapons



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# Linkage



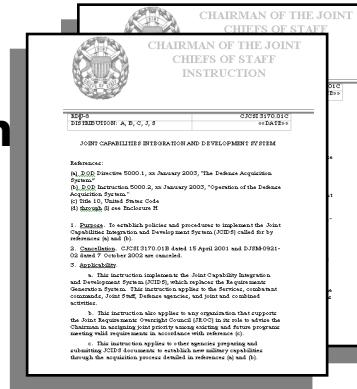
- Early and continuous **Operator** involvement is imperative
- Does not stop with defining the capability required
- Collaboration between all



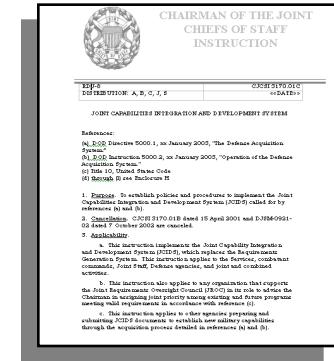
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# Guidance

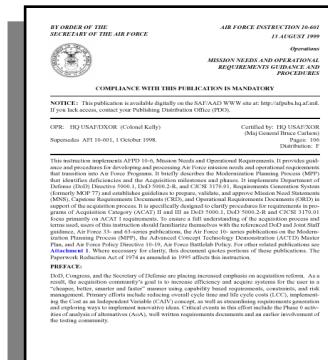
- **CJCSI 3170.01C, Joint Capabilities Integration and Development System**
  - Effects-based / capabilities focus
  - Canceled MNS and ORDs
  - Milestone A: **ICD** - Initial Capabilities Document
  - Milestone B: **CDD** - Capability Development Document
  - Milestone C: **CPD** - Capability Production Document
- **CJCSI 6212.01C, Interoperability and Supportability of Information Technology and National Security Systems**
  - Net-Readiness KPP
- **AFI 10-601, Capabilities Based Requirements Development**



**CJCSI 3170.01C**  
**CJCSI 3170.01M**  
**24 Jun 2003**



**CJCSI 6212.01C**  
**20 Nov 2003**

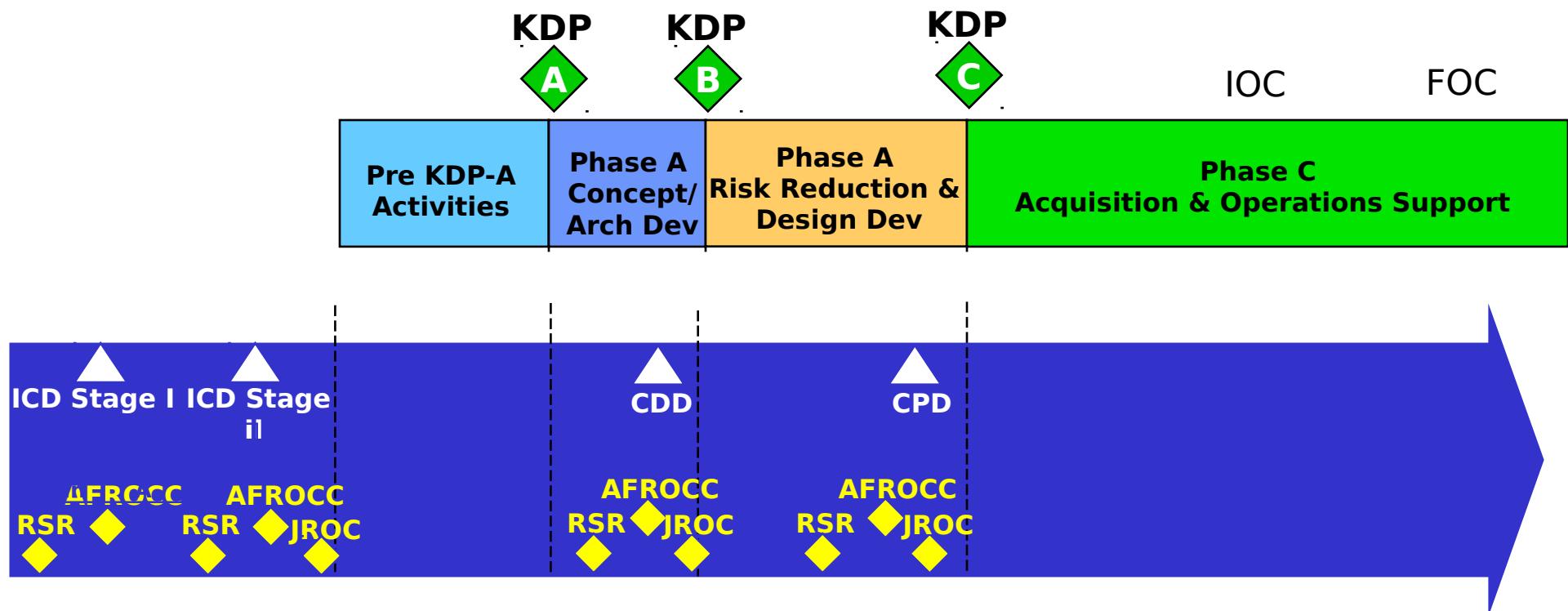


**AFI 10-601**  
**14 Oct 2003**



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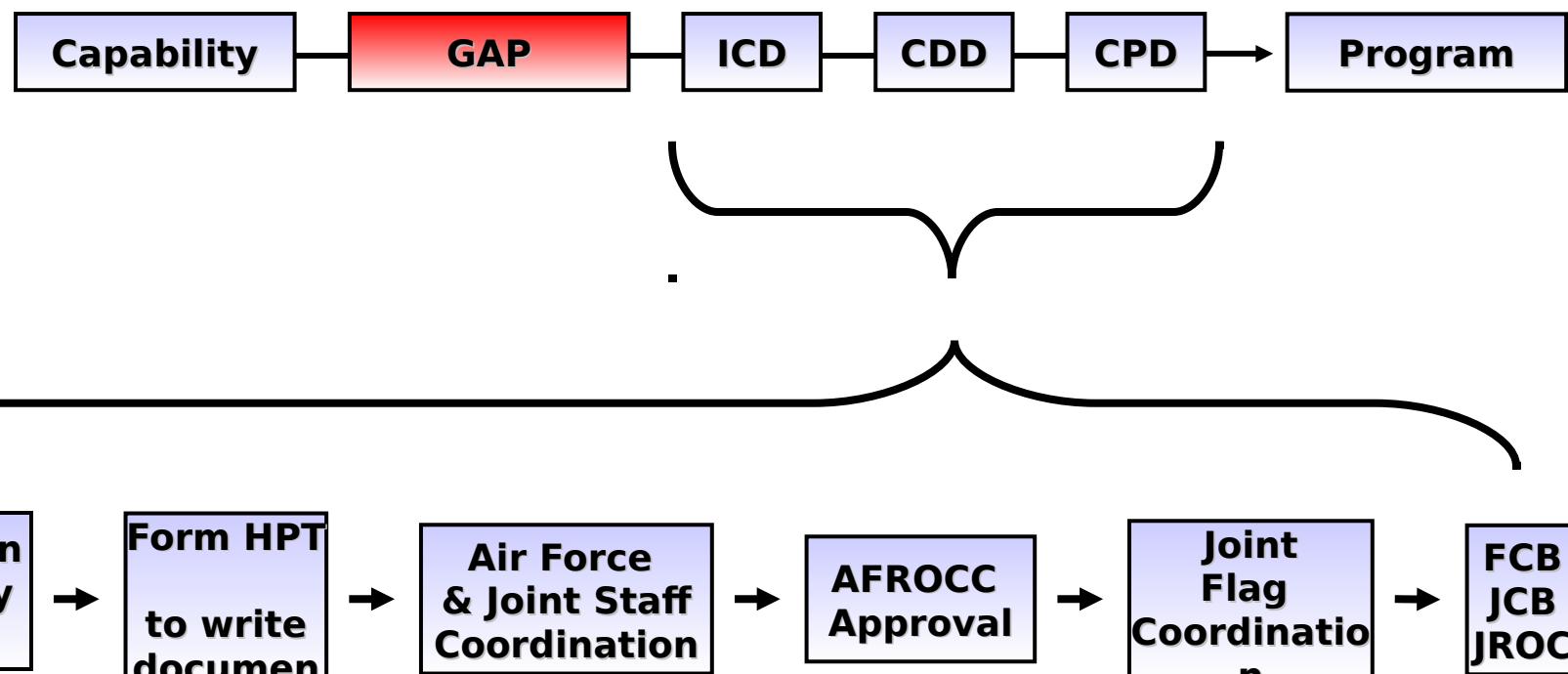
# Capabilities Requirements Development Process





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# Collaborative Requirements Process

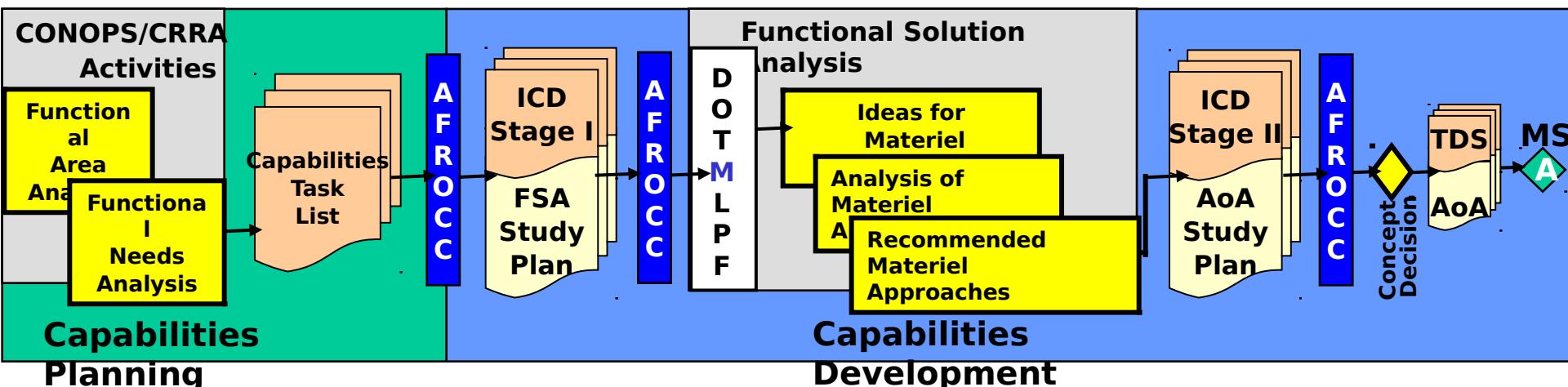




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# ICD Stage 1 & 2 Slide

- ICD Stage 1
  - Documents & defines capability gap
  - Lays foundation for Functional Solution Analysis (FSA)
  - Sections 1 - 5
- ICD Stage 2
  - Documents results of FSA
  - Provides recommendation for materiel / non-materiel approaches
  - Sections 1-7





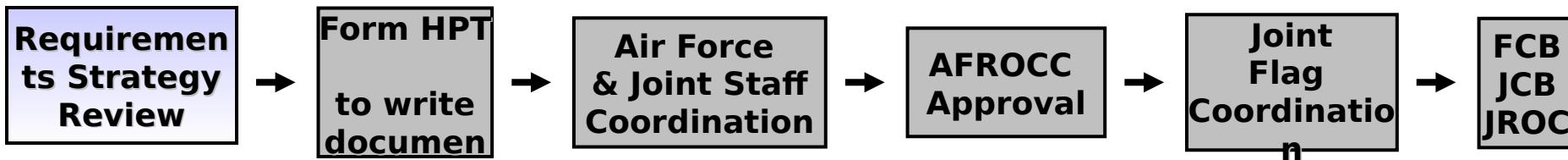
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# Requirements Strategy Review (RSR)

- Obtain Mr. Disbrow's approval of requirements strategy
- Describe
  - Required capability
  - CONOPS
  - Military effects
  - Constraints
  - Schedule
  - High Performance Team (HPT) members
  - Document preparation timeline
  - Interoperability
- RSR mandatory for all documents



Mr Harry Disbrow, DXOR

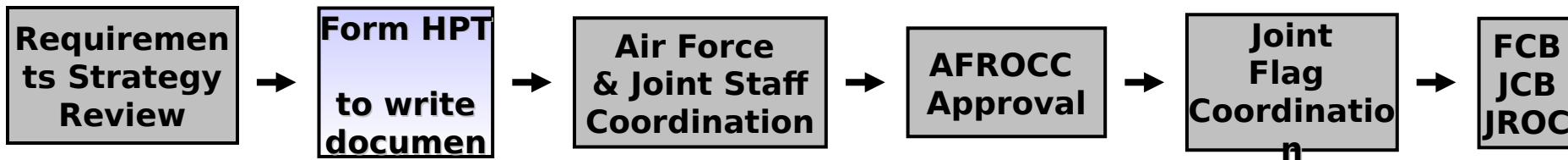
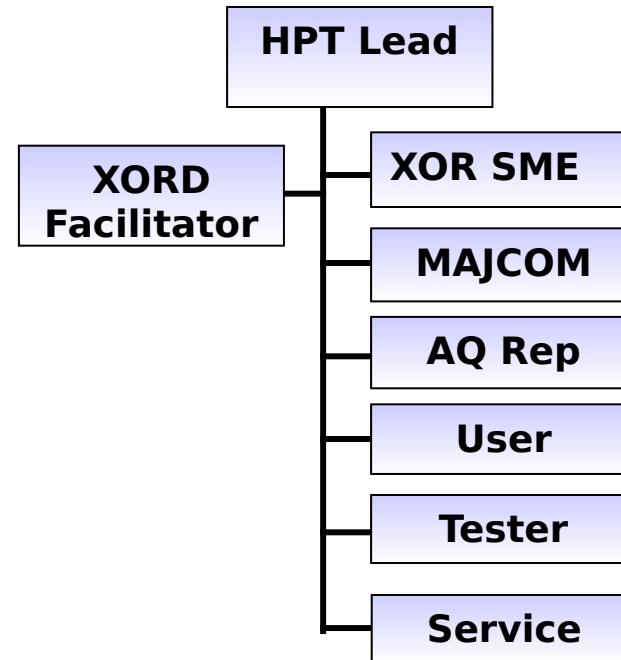




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# **High Performance Team**

- 1 to 2 week document writing effort
- Core team
  - AF/XORD facilitates
  - Members come prepared
  - Small team
  - Usually led by MAJCOM
  - Dedicated to the task
  - Empowered by organization
- Support team
  - Conduit to other stakeholders
  - Act as subject matter expert
  - Provide support, as needed
  - Architecture expert



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# **Air Force & Joint Staff Coordination**

- Internal MAJCOM coordination
- Other MAJCOM coordination
- Air Staff and Joint Staff (O-6) coordination
  - Allow 35 days for AF
  - Allow 25 days for Joint Staff 0-6
  - Allow 10 days for Joint Potential Designator (JP)
- JPD
  - JROC Interest
  - Joint Integration
  - Independent



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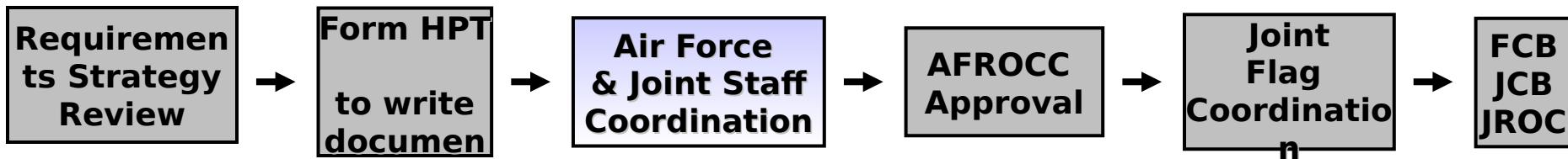
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# Air Force & Joint Staff Coordination

- **MAJCOM POC** performs internal and external MAJCOM coordination
- **Air Staff functional** performs Air Staff coordination
  - One pass (Directorate level)
- **AF/XORD** performs policy review & is conduit for Joint Staff coordination
- **MAJCOM POC** resolves comments
- **Resolve all critical comments before AFROCC**
- **Address all substantive comments before AFROCC**



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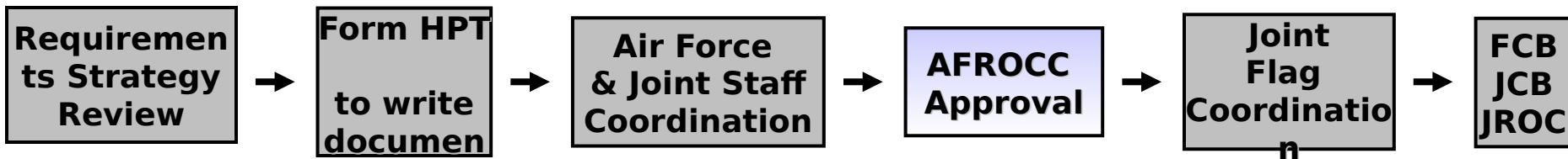
# AF Requirements for Operational Capabilities

Council

- **Reviews and validates:**
  - **Requirement** documents (ICDs, CDDs, CPDs)
  - **Required architecture** views
  - **Analysis of Alternatives (AoA)** study plans/results
- **Members:** MAJCOMs, SAF/AQ, AF/IL, AF/TE, AF/XP, AF/XI, AF/XOI, AF/CIO, AFOTEC, AFRC, ANG, AFC2ISRC
- **Observers:** MDA, USA, USN, USMC, OAS, SAF/USA and AFSAA



AFROCC Chairman  
Maj Gen (S) Goldfein,  
XOR



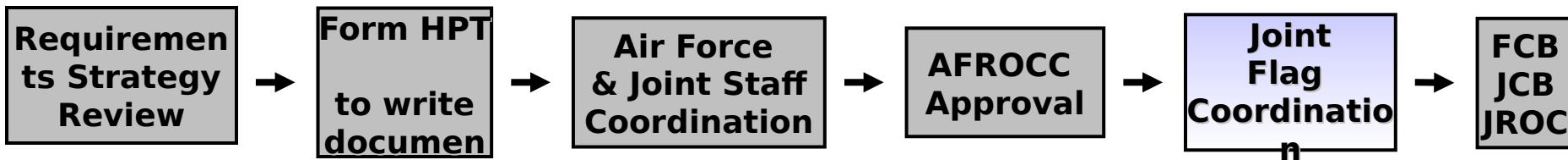
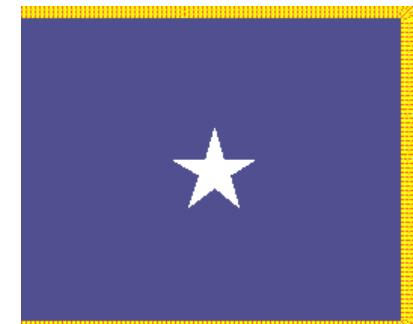
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# ***Joint Flag Coordination***

- Obtain Joint Flag coordination on JROC interest and Joint Integration
- Allow 21 days for coordination
- J-8 Flag coordination before JROC



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# **FCB, JCB & JROC**

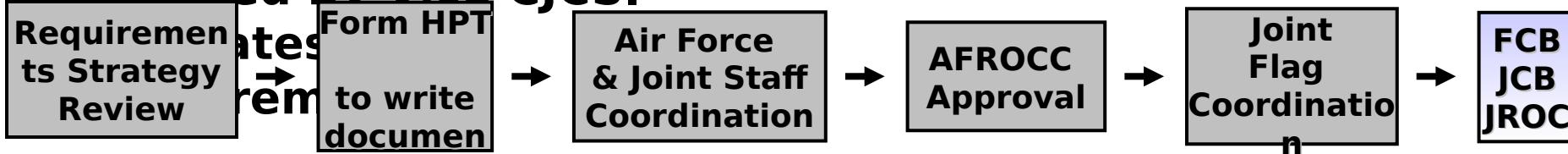
- **Functional Capability Board (FCB): Chaired by J-8 VDRA. Provides oversight of JCIDS process.**
- **Joint Capability Board (JCB): Chaired by Director J-8. Reviews joint requirements.**
- **Joint Requirements Oversight Council (JROC): Chaired by Vice CJCS.**



**JCB Chairman**  
**Lt Gen Cartwright, J8**



**JROC Chairman**  
**Gen Pace, Vice CJCS**





# Key Points To Remember

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- **RSR:**
  - Single most important step to make sure you are writing the correct document, have right people involved, and have right approach.
  - You can not build an RSR by yourself (collaborate)
- **ORD / MNS:**
  - Must meet MS B or C prior to Jun 2005
  - If in doubt, plan for a CDD or CPD
  - No MNS older then 2 years can support MS A
- **HPT Benefits:**
  - XORD led HPT allows concurrent O-6 staffing
  - Gain 2-3 months on staffing
- **Analysis and Rationale:**
  - Focus for CDDs and CPDs
  - Basis for thresholds and objectives
- **CRM:**
  - Joint Staff considers 15 day comment resolution a suspense
  - CRMs older then 6 months are going back into Joint Staff O-6 review



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# ***Key Net Readiness Points To Remember***

## **■ Net Ready KPP**

- Documents entering staffing now - May 04, must have a migration strategy**
- By Jun 2004 all new documents entering JCIDS staffing must have a Net ready KPP**
- Legacy documents are grand fathered until updated**



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# AF/XOR Web site,

<https://www.xo.hq.af.mil/xor/restricted/>



## AF/XOR

DIRECTORATE OF OPERATIONAL CAPABILITY REQUIREMENTS



### What's NEW in XOR?

- [XOR Biographies](#)
- [XOR Execs](#)
- [XOR Divisions](#)
- [XOR Organization](#)
- [XOR Roster](#)
- [XOR Logo](#)
- [Paperwork & Staffing](#)
- [AO PEM Course](#)

Briefing note: the briefing is large, so you may want to just right-click on the link and download it to your desktop/files

Note: Whenever this page has changed, you can find all updates under the "What's New in XOR?"



### CONOPS Champions

- [CONOPS Champions Home Page](#)
- [Integration](#)
- [Global Mobility](#)
- [Global Response](#)
- [Global Strike](#)
- [Homeland Security](#)
- [Nuclear Response](#)
- [Space & C4ISR](#)



### REQUIREMENTS COMMUNITY

- [AFROCC](#)
- [XO Home Page](#)
- [AF Biographies](#)



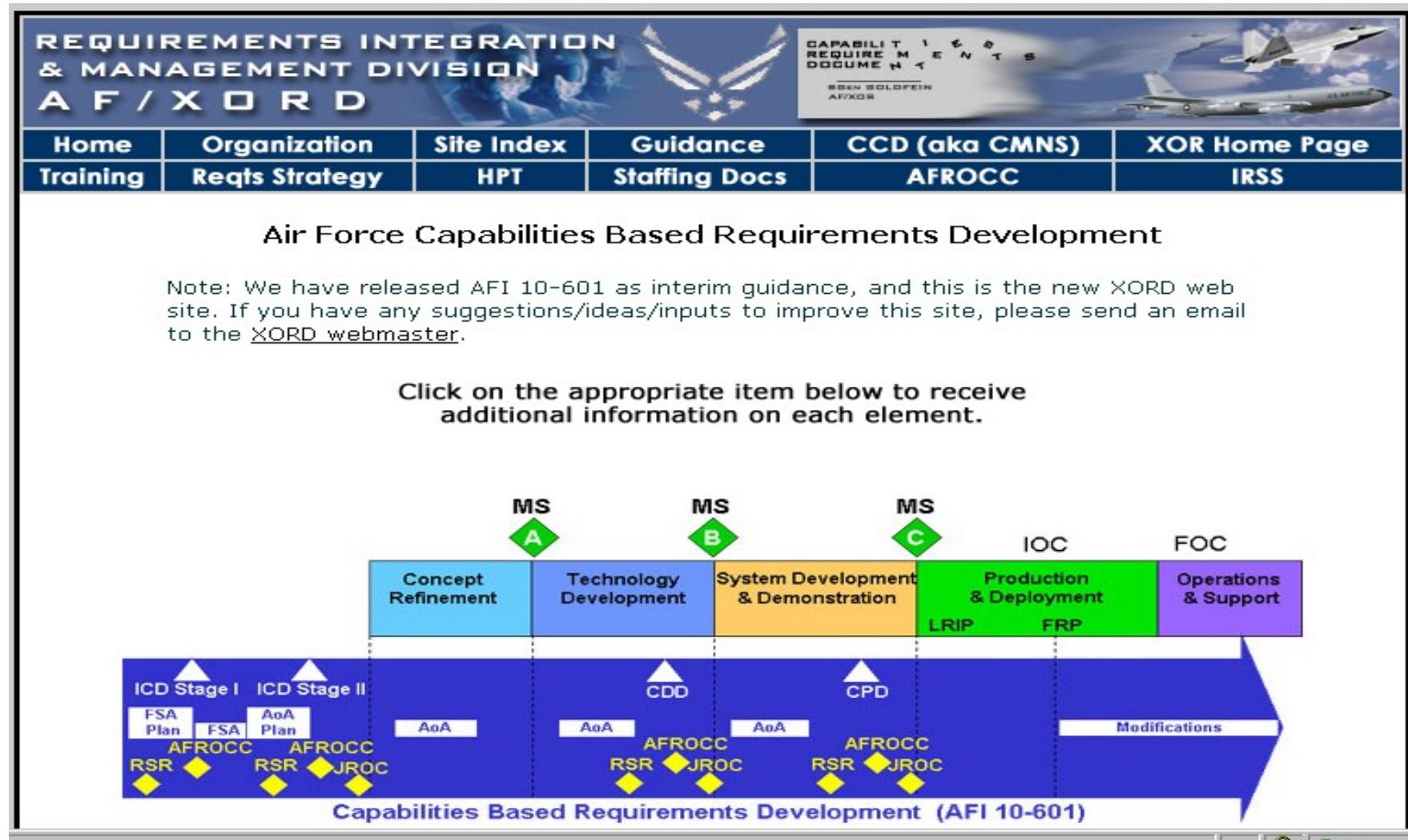
### MEDIA

- [Early Bird](#)
- [USAF AIM Points](#)
- [AF Issues and Answers](#)
- [AF Policy Digest](#)
- [American Forces Information Services \(AFIS\)](#)
- [AF Magazine](#)
- [Defense News Today](#)
- [Defense News](#)
- ["Officials use new doctrine for close air support in Iraqi Freedom"](#)
- ["USAF Gives More Resources to Task Forces Through Reorganization"](#)



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# AF/XOR Web site, <https://www.afreqs.hq.af.mil/>





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# AF/XOR Web site, <https://www.afreqs.hq.af.mil/>

**REQUIREMENTS INTEGRATION & MANAGEMENT DIVISION**  
**A F / X O R D**

**CAPABILITIES REQUIREMENTS DOCUMENT**  
BEN GOLODFIN  
AFXOR

**Home** **Organization** **Site Index** **Guidance** **CCD (aka CMNS)** **XOR Home Page**  
**Training** **Reqs Strategy** **HPT** **Staffing Docs** **AFROCC** **IRSS**

**HIGH PERFORMANCE TEAMS :: HPT**

The High Performance Team (HPT) workspace at Rosslyn is an open storage facility at the **Secret classification level**. All visitors to the facility must therefore provide Visit Requests. Before the HPT convenes, please fax your visit request to the attention of your HPT Facilitator at fax number: 703-696-6984.

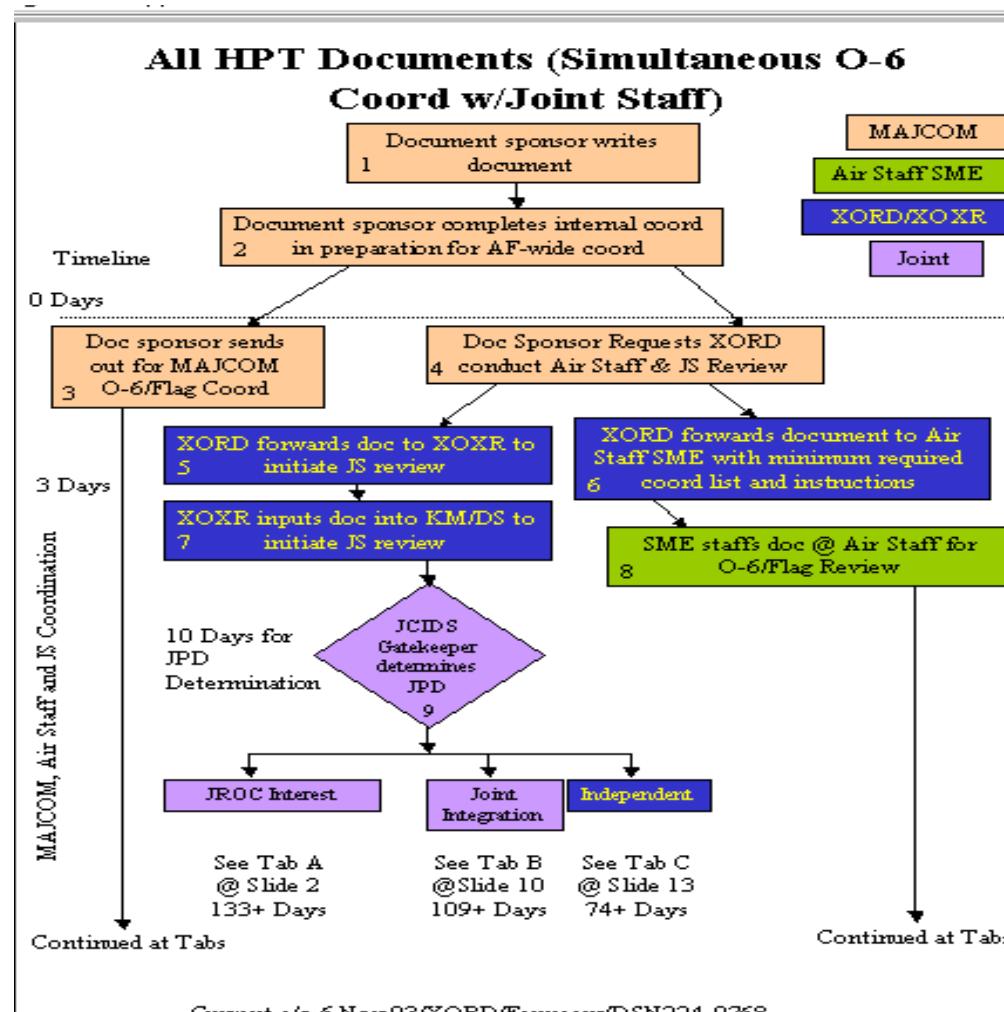
**HPT MENU**

<b>HPT GUIDANCE</b>	<b>XORD DOCUMENT STAFFING STATUS</b>	<b>AFI 10-601</b>
<b>HELPFUL HINTS</b>	<b>NEED ASSISTANCE?</b>	<b>XORD ARCHITECTURE PAGE</b>
<b>NET READY KPP INFO</b>		



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# AF/XOR Web site, <https://www.afreqs.hq.af.mil/>





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# **Information & Resource Support System (IRSS)**

- **Web based information management tool**
  - **Integrates planning, requirements and financial information**
  - **Facilitates development, transfer and staffing of documents**
  - **Provides AF-wide repository for requirements documents**
  - **Allows collaboration between geographical organizations**
- **24-Hour Level I Help Desk Support - DSN 596-5**
- **Web-Based Training - <http://online.afit.edu/msg/>**



**iRSS**

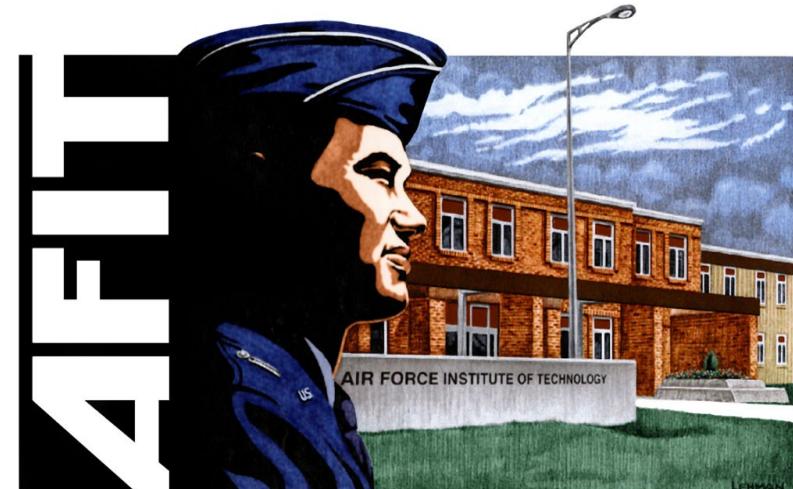


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# **Training**

- Capabilities requirement courses
  - **REQ 111 - Operational Requirements Basic Course (AFIT)**
    - Peterson AFB: 3-5 Aug 04
  - **SYS 283 - Introduction to Architecture (AFIT)**
    - HQ/USAF: 8-9 Apr 04
- POCs
  - **REQ 111: Ms Shawn Riordan, [shawn.riordan@pentagon.af.mil](mailto:shawn.riordan@pentagon.af.mil)**
  - **SYS 283: Capt Brian Hartt, [brian.hartt@afit.edu](mailto:brian.hartt@afit.edu)**





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# **Summary**

- Numerous changes to improve fielding of capabilities to the warfighters
- AF/XORD POCs:
  - Requirements Generation Branch:  
Lt Col Craig Nygaard, DSN 426-5002  
[craig.nygaard@pentagon.af.mil](mailto:craig.nygaard@pentagon.af.mil)
  - Requirements Policy Branch:  
Maj Jeff Neischel/Maj Vic Little  
DSN 224-0769/0361  
[jeffrey.neischel@pentagon.af.mil](mailto:jeffrey.neischel@pentagon.af.mil)  
[victor.little@pentagon.af.mil](mailto:victor.little@pentagon.af.mil)
  - Integration Branch:  
Lt Col Claude Salcedo, DSN 225-8628  
[claude.salcedo@pentagon.af.mil](mailto:claude.salcedo@pentagon.af.mil)



# ***Headquarters U.S. Air Force***

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## **Questions?**



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# Air Staff Roadshow

## Handout

### Capabilities Requirements:

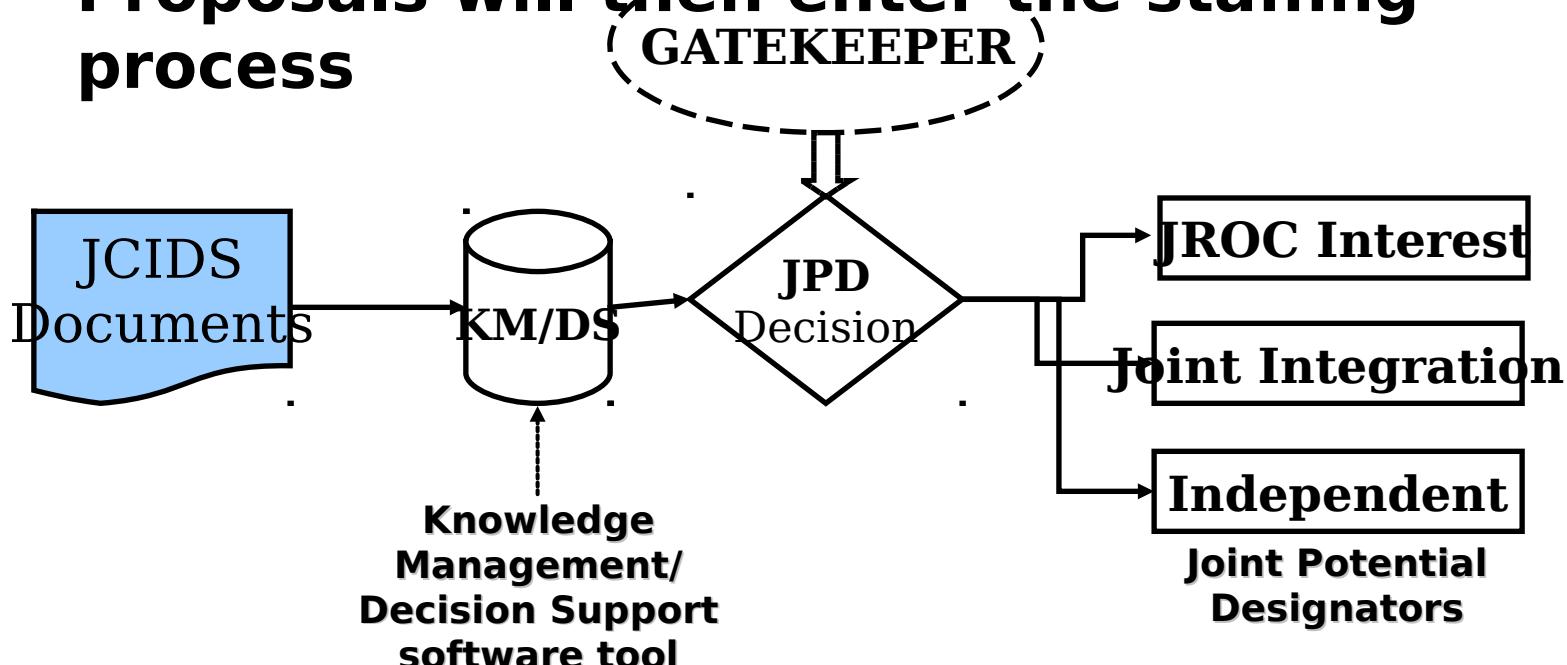
- Web site:  
<https://www.afreqs.hq.af.mil/>
- IRSS:
  - 24-Hour Level I Help Desk Support - DSN 596-5771
  - Web Training -  
<http://online.afit.edu/msg/irss>
- POCs:
  - Requirements Generation Branch: Lt Col Craig Nygaard, DSN 426-5002 [craig.nygaard@pentagon.af.mil](mailto:craig.nygaard@pentagon.af.mil)
  - Requirements Policy Branch: Maj Vic Little, DSN 224-0361 [victor.little@pentagon.af.mil](mailto:victor.little@pentagon.af.mil)
  - Integration Branch: Lt Col Claude Salcedo, DSN 225-8628 [claude.salcedo@pentagon.af.mil](mailto:claude.salcedo@pentagon.af.mil)
- Training: Requirements 111 - [shawn.riordan@pentagon.af.mil](mailto:shawn.riordan@pentagon.af.mil)
- Key points to remember
  - RSR - very important
  - ORDS / MNS are gone
  - HPTs - beneficial
  - Analysis - key
  - NR KPP - must do



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# Gatekeeping Process

- All JCIDS proposals will be submitted to Gatekeeper
  - Joint potential designator (JPD) will be assigned
  - Lead/supporting FCBs identified
- Proposals will then enter the staffing process





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# Joint Potential Designator (JPD)

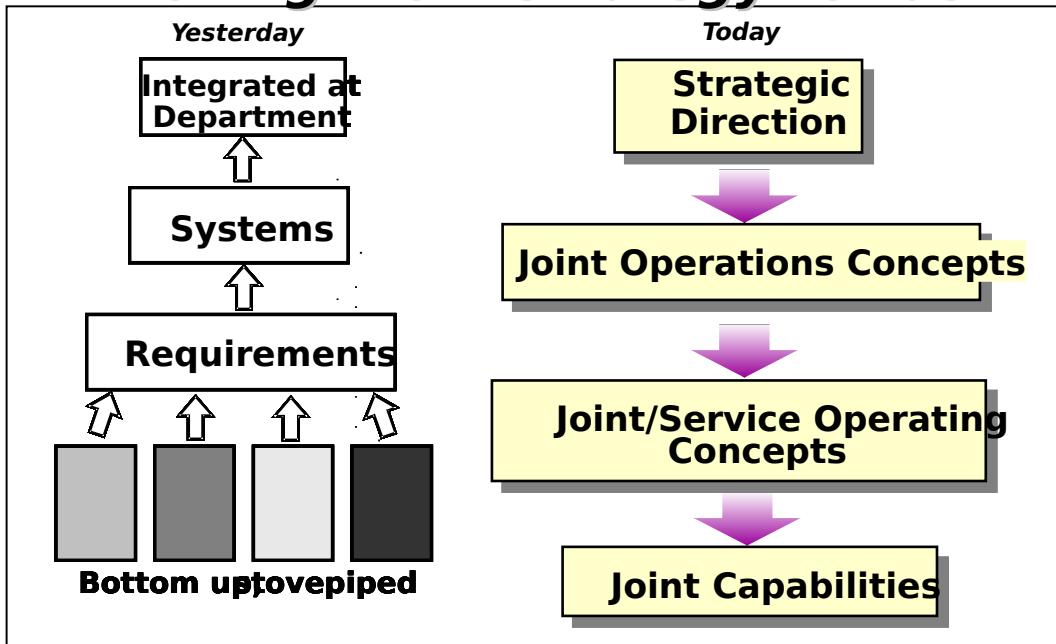
- J8 Assigns Joint Potential Designations **Definitions**
  - **JROC Interest** - Approved at JROC (All ACAT I/IA)
  - **Joint Integration** - Requires certifications (threat, intel, C4I, insensitive munitions, NSS & IT interoperability and supportability), approved by service/component (ACAT II and below with no significant affect on joint force)
  - **Independent** - No certifications required, approved by service/component (ACAT II and below)



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# Born Joint - Capabilities Based Methodology

## Moving From Strategy to Task



- **Guidance**
- **Concepts**
- **Scenarios**
- **MOEs**
- **Capabilitie**

- ✓ Improves analytical rigor in the process
- ✓ Focuses leadership on key decision points early
- ✓ Provides opportunities to adjust at the proper points along the way
- ✓ Shifts the focus from grading the homework in a threat based process to determining joint capability needs and orchestrating joint solutions



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# **New DoD 5000 Process**

# Back-up

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**Air Force Concepts of Operations (CONOPS) ... will guide our planning and programming, requirements**

**...Air Staff designed a new review to replace the QAPR--we call this new approach a Capabilities Review and Risk Assessment (CRRA).**

# CONOPS Vision

## CHIEF'S SIGHT PICTURE: Capabilities Review and Risk Assessment

What happened to the Quarterly Acquisition Review Program (QAPR)? In this Sight Picture, I'll answer that question--but to do so, I first need to give you a sense of the bigger picture in which the answer fits.

The Air Staff is currently working hard to lay the foundation for the next step in our transformation to a capabilities-focused Expeditionary Air and Space Force. Our goal is to make warfighting effects, and the capabilities we need to achieve them, the drivers for everything we do.

Development of new Task Force CONOPS is a prominent example and is the farthest along in development. The Air Staff is currently working hard to lay the foundation for the next step in our transformation to a capabilities-focused Expeditionary Air and Space Force. Our goal is to make warfighting effects, and the capabilities we need to achieve them, the drivers for everything we do.

It's in this context the Air Staff has designed a new review to replace the QAPR--we call this new approach a Capabilities Review and Risk Assessment (CRRA). The focus of the CRRA will also be on warfighting effects. As with all aspects of our transformation, the Air Staff is currently working hard to lay the foundation for the next step in our transformation to a capabilities-focused Expeditionary Air and Space Force. Our goal is to make warfighting effects, and the capabilities we need to achieve them, the drivers for everything we do.

Let me briefly describe the logic behind the CRRA construct. For our first time out of the chute, we'll review the capabilities that support the GSTF. The CRRA will evaluate the health and risk of each of the required GSTF capabilities over the next 20 years. To accomplish this, we will review acquisition programs and discuss disconnects and prioritization in relation to how the programs support GSTF capabilities. The bottom-line goal for the CRRA is to give senior USAF leadership an operational, capabilities-based focus for acquisition program decisionmaking.

The target for the GSTF CRRA is June 2002. As future Task Force CONOPS are defined, we will hold CRRA's accordingly. SAF/AQ and AF/XO will lead us through this first cycle, with major input from the MAJCOMs. Much work needs to be done through the next four months to make this a successful review, and I need your support so our Air Force can move in the right direction--towards using operational warfighting effects as the origin for every piece of hardware and software we buy.

**...make warfighting effects, and the capabilities we need to achieve them, the drivers for everything we do.**

**... shift from a program review to a review of how our programs contribute to warfighting capabilities and effects.**

**The CSAF Sight Picture <http://afconops.hq.af.mil/support/csafcrra.pot>**



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# Joint Functional Areas & Concepts

## Joint Operating Concepts

Major  
Combat Operations  
Homeland Security  
Stability Operations  
Strategic Deterrence  
(JFCOM) (NORTHCOM) (JFCOM) (STRATCOM)

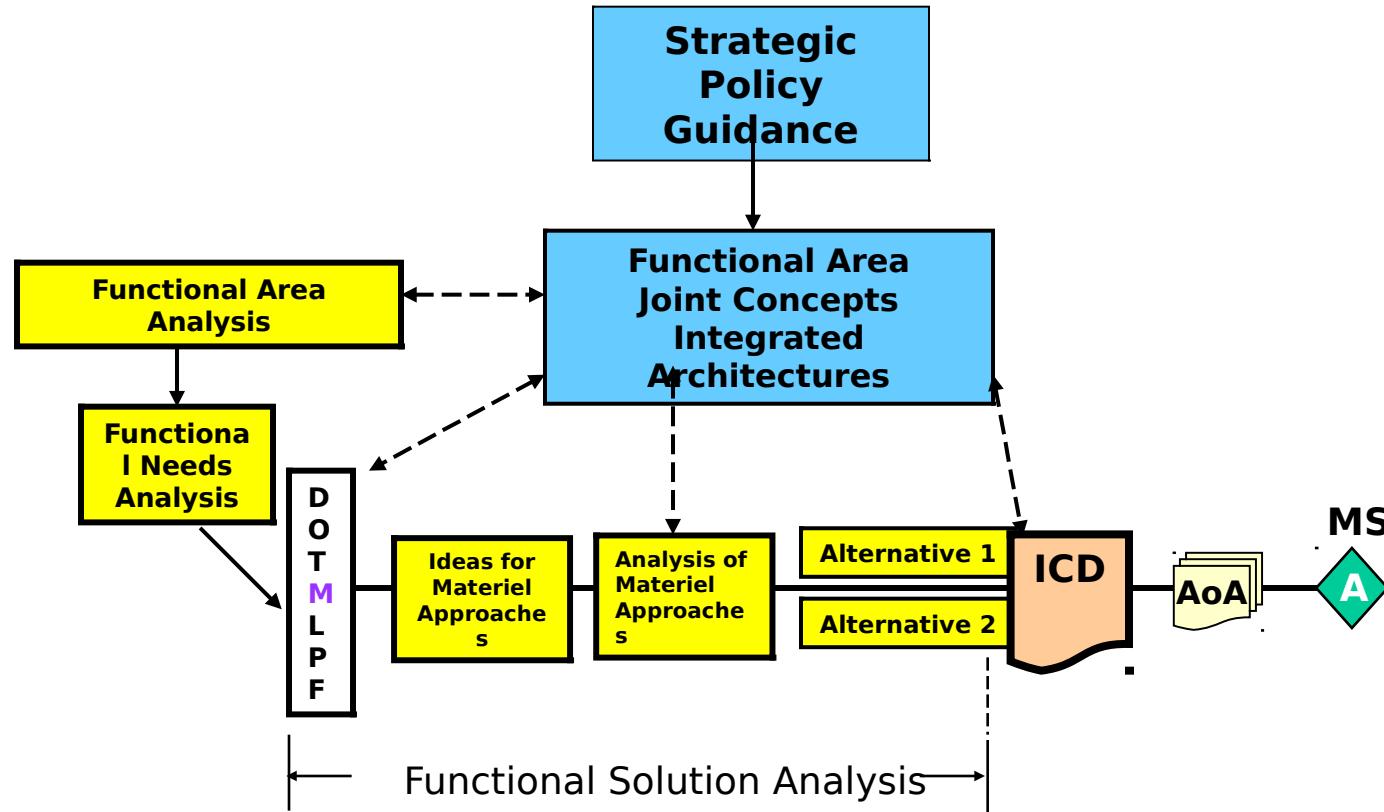
Battlespace Awareness				
Command and Control				
Force Application				
Protection				
Focused Logistics				

Joint Functional  
Areas & Concepts



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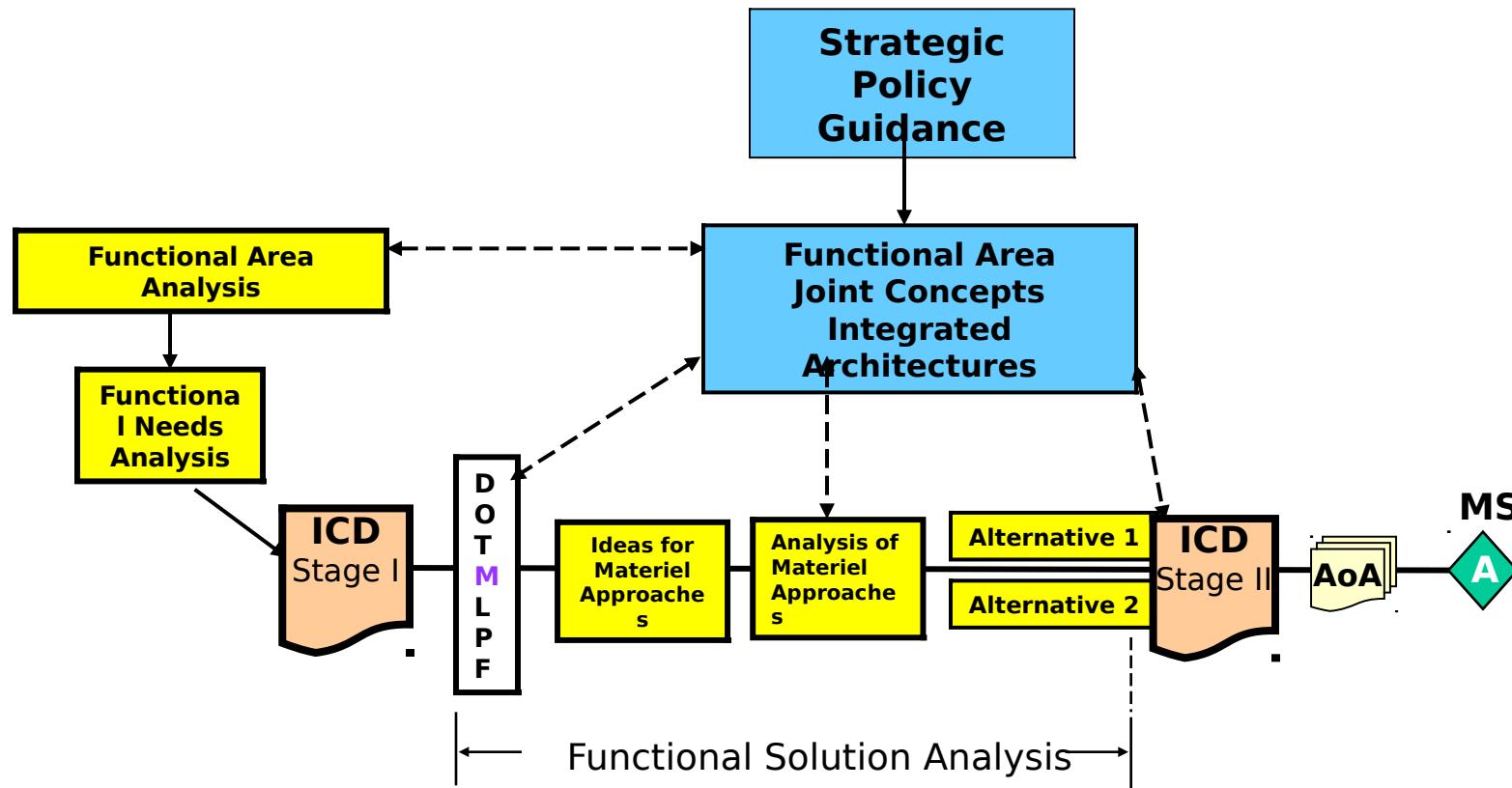
# Joint Capabilities Integration & Development System (JCIDS)





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# Joint Capabilities Integration & Development System (JCIDS)





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# AF Process to Implement JCIDS

